

Fig. 1

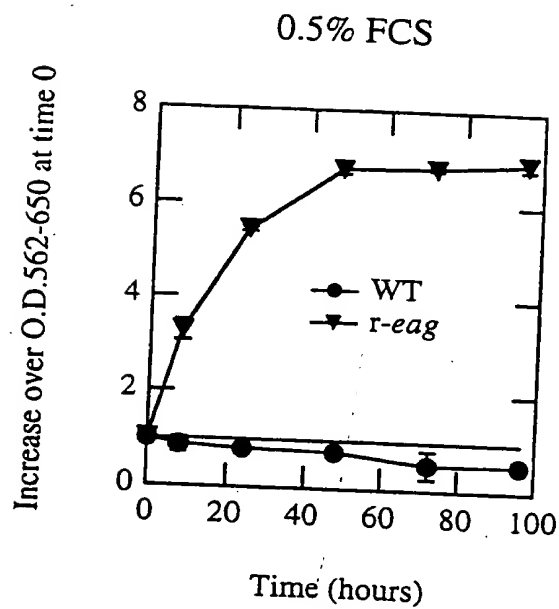


Fig. 2

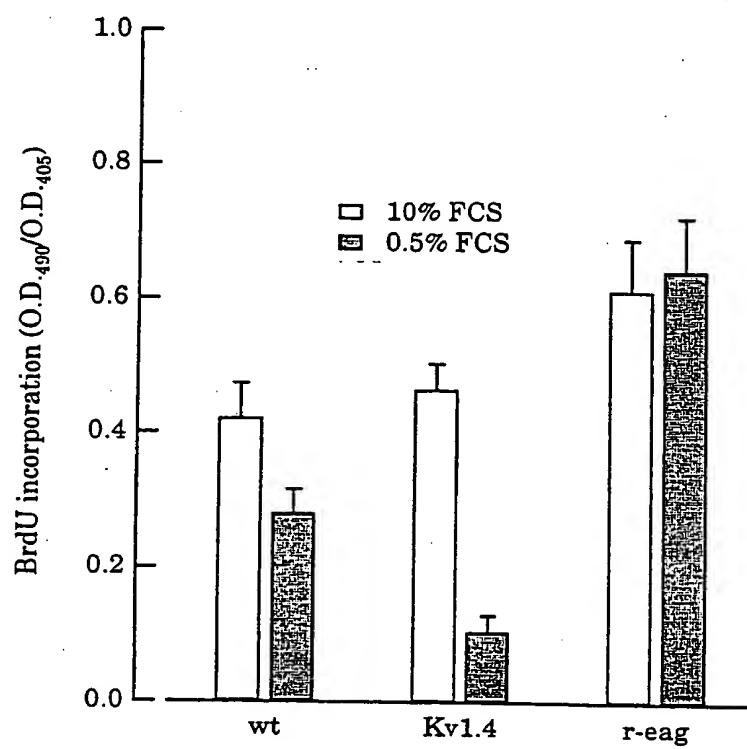
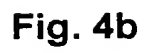


Fig. 3



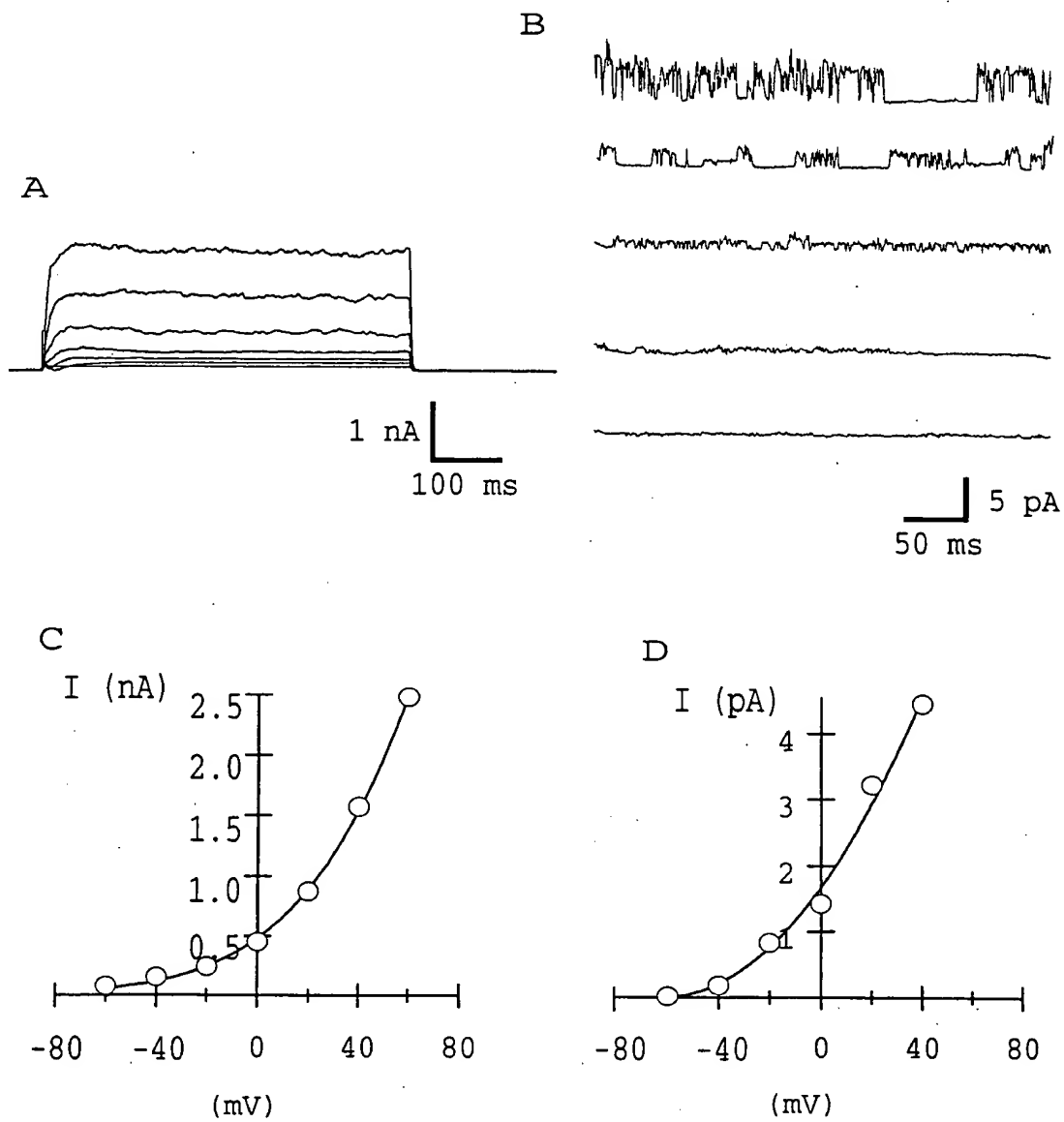
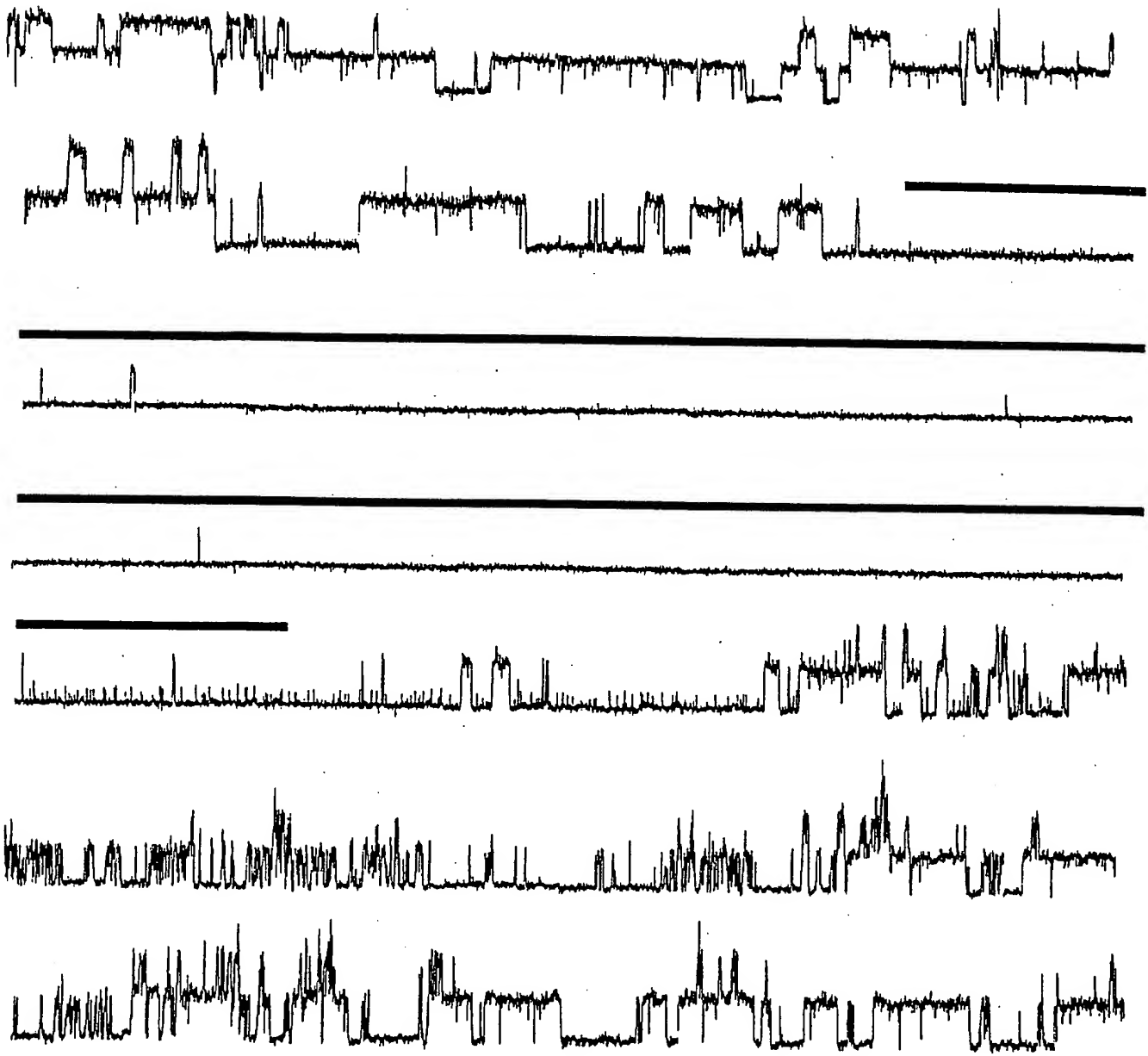


Fig. 5

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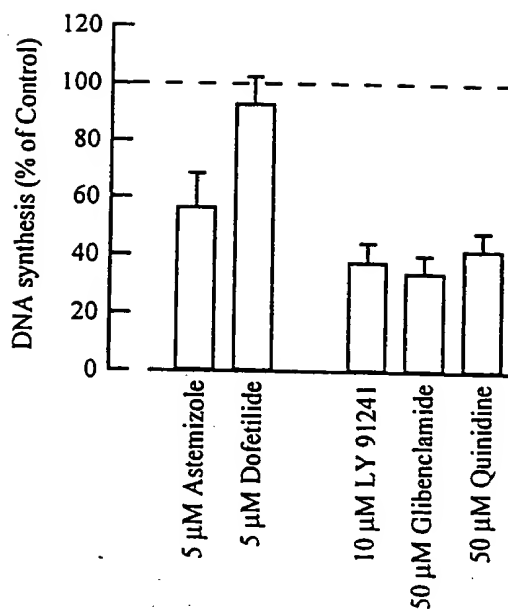


2 pA
100 ms

5 μ M Astemizole

Fig. 6

A



B

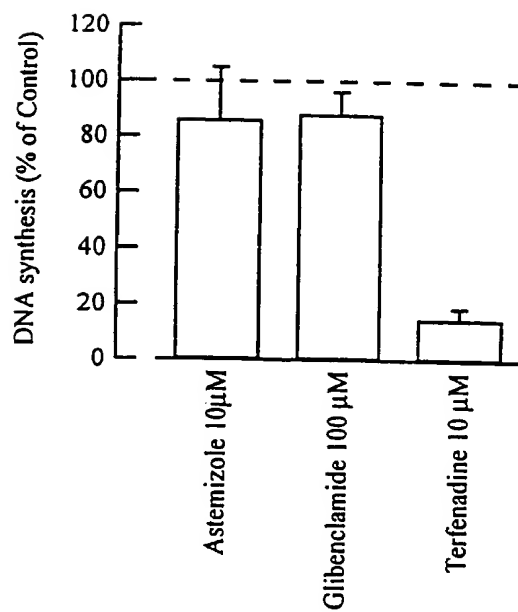


Fig. 7

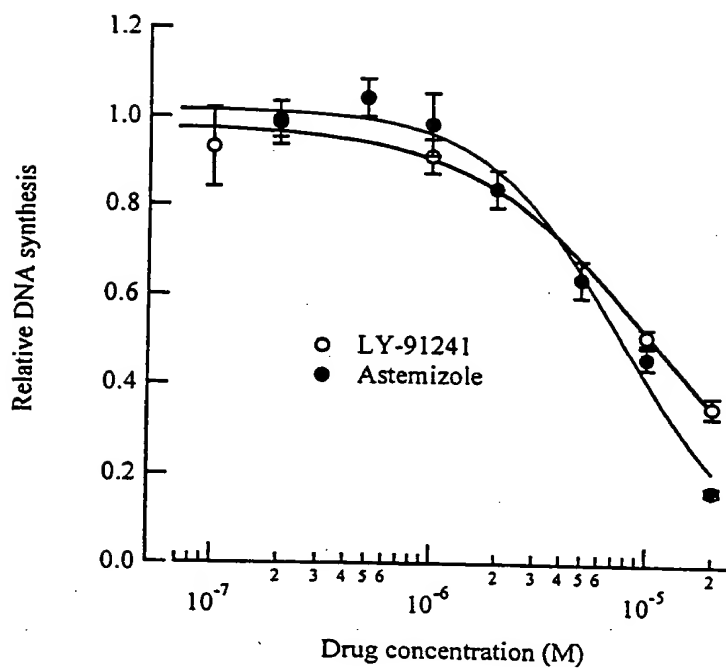


Fig. 8

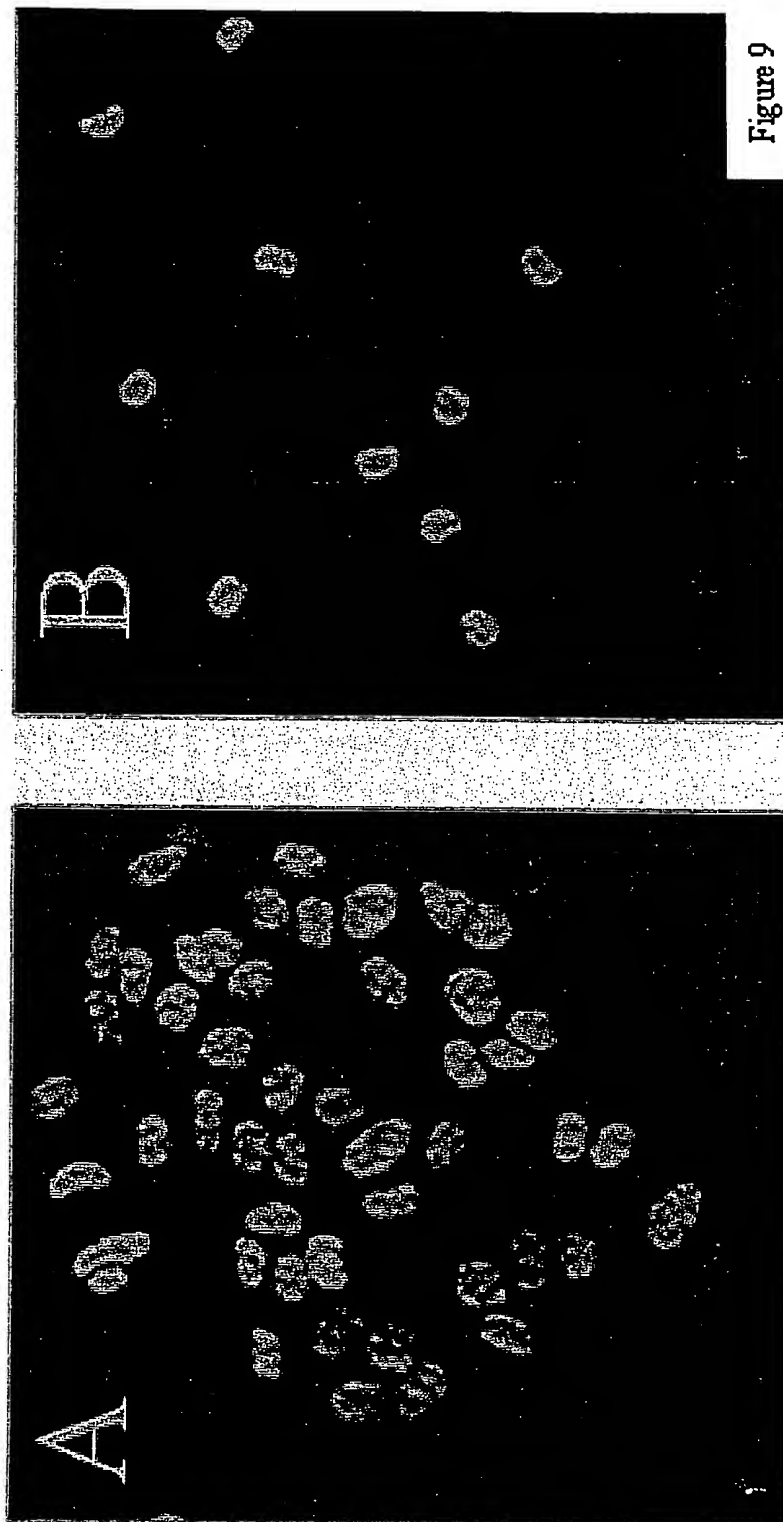


Figure 9

Fig. 10

Fig. 10 cont.

heag	A	G	C	G	T	G	C	A	A	A	G	G	C	G	A	A	T	G	T	C	C	A	C	A	G	C	A	C	T	C	C	G	C	C	586									
beag	A	G	C	G	T	G	C	A	G	A	A	G	G	C	G	A	A	C	G	T	C	C	A	C	A	A	G	C	A	C	T	C	C	T	C	747								
reag	A	G	T	G	T	G	C	A	G	A	A	G	G	T	G	A	A	T	G	T	T	C	A	C	A	A	G	C	A	C	T	C	G	C	G	C	C	759						
heag	T	G	G	C	A	G	A	G	G	T	C	C	T	A	C	A	G	C	T	G	G	C	T	C	A	G	A	C	A	T	C	C	T	C	C	C	A	626						
beag	T	G	G	C	C	G	A	G	G	T	T	C	T	G	C	A	G	C	T	G	G	C	T	C	A	G	A	C	A	T	C	C	T	T	C	C	C	A	787					
reag	T	G	G	C	A	G	A	G	G	T	C	C	T	G	C	A	G	C	T	G	G	T	T	C	A	G	A	C	A	T	C	C	T	C	C	C	C	A	799					
heag	G	T	A	C	A	A	G	C	A	G	G	C	A	C	C	A	A	A	G	A	C	T	C	C	C	C	C	C	T	C	A	C	A	T	C	A	T	C	666					
beag	G	T	A	C	A	A	G	C	A	A	G	G	C	A	C	C	A	A	A	G	A	C	T	C	C	C	C	C	G	C	A	C	A	T	C	A	T	C	827					
reag	G	T	A	C	A	A	G	C	A	A	G	G	C	G	C	C	A	A	A	G	A	C	A	C	C	C	C	C	T	C	A	C	A	T	C	A	T	C	839					
heag	T	T	A	C	A	T	T	A	T	T	G	T	G	T	T	T	T	A	A	G	A	C	C	A	C	G	T	G	G	G	A	T	T	G	G	A	T	C	A	706				
beag	T	T	A	C	A	C	T	A	C	T	A	C	T	G	C	G	T	T	T	A	A	G	A	C	C	A	C	G	T	G	G	G	A	C	T	G	G	A	T	C	A	867		
reag	C	T	A	C	A	C	T	A	C	T	A	C	T	G	T	G	T	T	A	A	G	A	C	C	A	C	A	T	G	G	A	T	T	G	G	A	T	T	C	A	879			
heag	T	C	T	T	G	A	T	C	T	T	G	A	C	C	T	T	A	T	A	C	A	G	C	C	A	T	C	T	T	G	G	T	C	C	C	T	T	A	746					
beag	T	C	C	T	G	A	T	C	C	T	A	C	T	A	C	C	T	T	C	T	A	C	A	C	A	G	C	C	A	T	C	C	T	G	G	T	T	C	C	T	T	A	907	
reag	T	C	T	T	G	A	T	C	C	T	G	A	C	C	T	T	C	T	A	C	A	C	A	G	C	C	A	T	C	C	T	G	G	T	C	C	C	T	T	A	919			
heag	T	A	A	T	G	T	C	T	C	C	T	T	C	A	A	A	C	C	A	G	G	C	A	T	A	A	T	G	T	G	G	C	C	T	G	G	C	C	T	G	G	786		
beag	C	A	A	C	G	T	C	T	C	C	T	T	A	A	A	A	C	C	A	G	G	C	A	G	A	A	C	A	A	C	G	T	G	G	C	C	T	G	G	C	C	G	947	
reag	C	A	A	C	G	T	C	T	C	C	T	T	A	A	A	A	C	C	A	G	G	C	A	G	A	A	T	A	C	G	T	G	G	C	C	T	G	G	C	C	T	G	G	959
heag	C	T	G	G	T	T	G	T	T	G	A	T	A	G	C	A	T	C	G	T	G	G	A	T	G	T	T	A	T	C	T	T	T	T	T	T	G	G	T	G	G	826		
beag	C	T	G	G	T	T	G	T	G	G	A	C	A	G	C	A	T	C	G	T	G	G	A	T	G	T	C	A	T	T	T	T	T	T	T	T	T	G	G	T	G	G	987	
reag	C	T	G	G	T	G	T	G	G	A	C	A	G	C	A	T	C	G	T	G	G	A	T	G	T	C	A	T	C	T	T	T	T	T	T	T	T	T	G	T	G	G	999	

Fig. 10 cont.

Fig. 10 cont.

heag	A	T	C	T	T	G	C	A	G	T	G	G	C	C	A	T	C	A	T	G	A	T	T	G	G	C	T	C	A	C	T	T	C	T	C	T	1426
beag	A	T	C	T	T	T	G	C	C	G	T	G	G	C	C	A	T	C	A	T	G	A	T	T	G	G	C	T	C	C	T	C	T	C	T	1587	
reag	A	T	C	T	T	C	G	C	C	G	T	A	G	C	C	A	T	C	A	T	G	A	T	T	G	G	C	T	C	C	T	C	T	G	T	1599	

[illegible]

heag	G	A	T	G	T	A	T	G	C	C	A	A	C	C	A	A	G	A	T	A	C	C	A	T	G	A	T	G	C	T	C	A	C	1506	
beag	G	A	T	G	T	A	C	G	C	C	A	A	C	C	A	C	A	G	G	T	A	C	C	A	T	G	A	T	G	C	T	C	A	C	1667
reag	G	A	T	G	T	A	T	G	C	C	A	A	C	C	A	C	A	G	G	T	A	T	C	A	T	G	A	T	G	C	T	C	A	C	1679

heag	A	G	T	G	T	T	C	G	G	G	A	C	T	T	C	C	T	G	A	A	G	C	A	A	A	A	G	1546
beag	A	G	T	G	T	C	C	G	G	G	A	C	T	T	C	T	T	G	A	A	G	C	C	A	A	G	G	1707
reag	A	G	C	G	T	C	C	G	G	G	A	T	T	T	C	C	T	G	A	A	G	C	T	A	C	G	G	1719

heag	G	A	T	T	G	A	G	T	G	A	G	C	G	A	G	T	A	A	T	G	G	A	T	T	A	T	A	T	T	G	T	G	T	C	C	A	C	T	T	G	1586
beag	G	G	C	T	T	G	A	G	C	G	A	G	T	C	A	T	T	A	C	A	T	G	G	A	T	T	A	C	A	T	C	C	A	C	C	A	C	C	T	G	1747
reag	G	G	C	T	T	G	A	G	C	G	G	G	T	C	A	T	T	A	C	A	T	T	G	G	A	T	T	A	C	A	T	T	C	T	A	C	C	T	G	1759	

heag	G T C C A T G T C C A G A G G C A T T G A C A C A G A G A G T C C T G C A G	1626
beag	G T C C A T G T C C A G A G G C A T T G A C A C A G A G A G T C C T G C A G	1787
regg	G T C C A T G T C C C G C G G C A T C G A C A C G A G A G T C C T G C A A	1799

heag	A	T	C	T	G	C	C	C	A	A	G	G	A	C	A	T	G	A	G	C	C	G	A	C	A	T	C	T	G	C	G	T	G	C	A	C	C	
beag	A	T	C	T	G	C	C	C	C	A	A	G	G	A	C	A	T	G	A	G	C	G	G	A	C	A	T	C	T	G	C	G	T	G	C	A	C	C
regg	A	T	C	T	G	C	C	C	C	A	A	G	G	A	C	A	T	C	G	A	G	C	T	G	A	C	A	T	T	T	G	C	G	T	A	C	A	C

Fig. 10 cont.

Fig. 10 cont.

	1986	2147	2159
heag	G A C C T A C T G T G A T C T G C A T G T G A T C A A G C G G A T G C C C T G		
beag	G A C C T A C T G T G A C C T C C A T G T G A T C A A G C G G A C G C C C T G		
reag	G A C C T A C T G T G A C C T C C A T G T G A T C A A G A G G A T G C C C T G		

	2026	2187	2199
heag	C A G A A A G T G C T G G A A T T C T A C A C G G C C T T C T C C C A T T C C T		
beag	C A G A A A G T G C T G G A A T T C T A C A C A G C C T T C T C C C A C T C C T		
reag	C A G A A A G T G C T A G A A T T C T A C A C A G C C T T C T C C C A C T C C T		

heag	T	C	T	C	C	G	G	A	A	C	C	T	G	A	T	T	C	T	G	A	C	T	A	C	A	C	T	T	G	A	G	A	G	A	G	2066
beag	T	C	T	C	C	G	G	A	A	C	C	T	C	A	T	T	C	T	C	A	C	A	C	T	A	C	A	C	T	T	G	A	G	A	G	2227
reag	T	C	T	C	C	G	G	A	A	C	C	T	C	A	T	T	C	T	C	A	C	A	C	T	A	C	A	T	C	T	G	A	G	A	G	2239

heag	G A T T G T T C C G G A A G A T C A G C G A T G T G A A C G T G A A G A G	2106
beag	G A T C G T G T T C C G G A A G A T C A G T G A C G T G A A C G G G A G	2267
reag	G A T T G T G T T C C G G A A G A T C A G C G A C G T G A A C G A G A A	2279

heag	G	A	A	G	A	C	G	C	A	T	G	A	A	C	G	A	A	G	A	A	T	G	A	G	C	C	C	C	C	C	T	G	A	T	C	T	2146	
beag	G	A	G	G	A	G	C	G	C	A	T	G	A	G	C	G	A	A	G	A	A	T	G	A	G	C	C	C	C	C	C	T	G	A	T	C	C	2307
reag	G	A	G	G	A	G	G	A	G	A	T	G	A	A	C	G	G	A	A	G	A	C	G	A	G	C	C	C	C	C	C	C	T	T	A	T	C	2319

	2186	2347	2359
heag	T	G	C
beag	T	G	C
regg	T	G	C

heag	C	C	G	A	C	A	G	C	A	A	A	G	A	G	C	C	A	G	C	T	G	G	C	A	G	C	T	G	A	G	A	G	G	2226
beag	C	C	G	C	C	A	G	C	A	G	A	G	A	A	C	G	C	C	A	G	C	T	G	G	C	C	G	C	G	A	G	G	G	2387
reag	C	C	G	C	C	A	G	C	A	G	A	A	A	A	C	G	C	C	A	G	C	T	G	G	C	C	G	C	G	A	G	T	G	2399

Fig. 10 cont.

Fig. 10 cont.

heag	A	C	A	A	G	G	T	G	T	C	C	A	A	G	G	C	T	G	A	G	T	C	G	A	T	G	G	A	C	T	T	C	C	C	G	A	2546				
beag	G	C	A	A	G	G	T	G	T	C	C	A	A	G	G	C	C	G	A	G	T	C	C	A	T	G	G	A	A	C	G	C	T	C	C	C	G	A	2701		
reag	A	C	A	A	G	G	T	G	T	C	C	A	A	G	G	C	A	G	A	G	T	C	C	A	T	G	G	A	C	G	C	T	T	C	C	C	G	A	2719		
heag	G	A	G	G	A	C	A	A	A	G	C	G	T	C	A	G	C	G	G	C	G	A	C	A	C	T	G	A	A	G	A	C	A	G	A	C	A	2586			
beag	G	A	G	G	A	C	G	A	A	G	G	C	C	G	C	C	G	G	G	C	G	A	C	A	C	T	C	A	A	G	A	A	C	G	A	C	G	2741			
reag	G	A	G	G	A	C	A	A	G	G	C	A	T	C	G	G	C	G	G	C	G	A	G	C	T	G	A	A	G	A	A	G	A	C	A	2759					
heag	G	A	C	T	C	G	T	G	T	G	A	C	A	G	T	G	G	C	A	T	C	A	C	A	A	G	A	G	A	G	C	G	A	C	T	T	G	C	C	2626	
beag	G	A	C	T	C	G	T	C	G	A	C	A	G	C	G	G	C	A	T	C	A	C	A	A	G	A	G	C	G	A	C	T	G	C	G	T	C	2781			
reag	G	A	C	T	C	C	T	G	T	G	A	C	A	G	T	G	A	A	T	C	A	C	A	A	G	A	G	T	G	A	C	C	T	G	C	G	T	2799			
heag	T	G	G	A	C	A	A	C	G	T	G	G	G	T	G	A	G	G	C	C	A	G	T	C	C	C	C	A	G	A	T	C	G	G	A	G	2666				
beag	T	G	G	A	C	A	A	C	G	T	G	G	G	C	G	A	G	G	C	C	A	G	A	A	G	C	C	C	C	A	G	A	C	C	G	G	A	2821			
reag	T	G	G	A	C	A	T	G	T	G	G	G	T	G	A	G	G	C	C	A	G	T	C	C	C	C	C	C	A	G	A	C	C	G	G	A	G	2839			
heag	T	C	C	C	A	T	C	T	G	G	C	A	G	A	G	G	T	C	A	A	G	C	A	T	T	C	G	T	T	C	T	A	C	C	C	A	T	C	2706		
beag	C	C	C	C	A	T	C	T	T	G	G	C	G	A	G	G	T	C	A	A	G	C	A	C	T	C	C	T	C	T	A	C	C	C	C	A	T	C	2861		
reag	C	C	C	C	A	T	C	T	T	G	G	C	C	G	A	G	G	T	C	A	A	G	C	A	T	T	T	T	C	T	A	C	C	C	C	A	T	C	2879		
heag	C	C	T	G	A	G	C	A	G	C	C	T	G	C	C	T	G	C	A	G	G	C	C	A	C	A	G	T	C	C	T	G	A	G	G	T	G	A	G	C	2746
beag	C	C	C	G	A	G	C	A	G	A	C	G	C	T	G	C	A	G	G	C	C	G	C	C	C	C	C	C	T	G	A	G	G	T	G	A	A	G	C	2901	
reag	C	C	C	G	A	G	C	A	G	A	C	A	C	T	G	C	A	G	G	C	C	A	C	A	G	T	G	C	T	G	A	G	G	T	G	A	A	G	C	2919	
heag	A	C	G	A	G	C	T	G	A	A	G	G	A	G	G	A	C	A	T	C	A	A	G	G	C	T	T	A	A	A	C	G	C	C	A	A	A	T	2786		
beag	A	C	G	A	G	C	T	C	A	A	G	G	A	G	A	C	A	T	C	A	A	G	G	C	T	T	G	A	G	C	A	C	C	A	A	G	A	T	2941		
reag	A	T	G	A	G	C	T	G	A	A	G	G	A	A	G	A	C	A	T	C	A	A	G	G	C	T	T	G	A	T	G	A	T	G	C	C	A	A	T	2959	

Fig. 10 cont.

heag	G	A	C	C	A	A	T	T	G	A	G	A	A	C	A	G	C	T	C	T	C	T	G	A	G	A	T	A	C	T	C	A	G	A	T	A	2826		
beag	G	A	C	C	G	A	G	C	A	T	T	G	A	A	C	A	G	C	T	C	T	C	T	G	A	G	A	T	A	C	T	C	A	G	A	T	A	2981	
reag	G	A	C	C	T	C	C	A	T	T	G	A	G	A	G	C	A	G	C	T	G	T	C	T	G	A	G	A	C	T	C	A	G	A	T	A	2999		
heag	T	T	A	A	C	T	C	A	T	T	C	A	G	A	A	T	C	C	T	C	A	G	T	C	T	C	A	G	A	G	T	T	G	T	T	G	T	2866	
beag	T	T	A	A	C	C	T	C	C	A	T	C	C	T	C	T	C	A	G	T	C	G	C	T	C	A	G	A	G	C	T	A	T	T	A	T	3021		
reag	C	T	C	A	T	G	T	C	C	A	G	A	G	G	T	C	C	A	G	T	C	T	C	G	C	A	G	A	C	A	C	G	T	T	A	T	3039		
heag	T	T	G	A	A	T	A	T	C	G	A	G	G	C	C	A	C	A	G	T	C	C	C	C	A	G	A	A	T	C	A	G	A	G	A	G	A	2906	
beag	T	T	G	A	A	T	A	T	C	G	A	G	G	C	C	C	C	A	G	T	C	C	C	C	C	A	G	A	G	T	C	A	G	A	G	A	G	A	3061
reag	G	T	G	A	G	G	T	C	T	C	C	A	G	G	C	C	C	A	G	T	C	C	C	C	C	A	G	T	C	A	G	A	C	A	G	A	3079		
heag	C	A	T	T	T	T	G	G	A	G	C	C	A	G	C	T	G	A	G	G	T	C	T	A	T	T	-	T	A	A	A	A	A	A	A	A	A	2945	
beag	C	A	T	T	T	T	G	G	C	G	C	A	A	G	C	T	G	A	G	G	T	C	T	G	T	T	G	T	A	A	A	A	A	A	A	A	3101		
reag	C	A	T	T	T	T	G	G	G	G	C	A	A	G	C	T	G	A	G	A	G	A	T	C	A	T	T	C	A	A	A	C	A	A	A	C	3119		
heag	G	-	-	-	-	-	-	-	-	T	C	-	-	A	G	A	-	G	A	C	A	G	A	T	A	C	C	T	C	C	A	A	C	C	T	G	C	2973	
beag	G	A	A	-	A	A	A	A	T	C	C	A	A	G	A	T	G	A	C	A	A	A	C	C	T	A	C	C	G	T	C	C	T	G	C	3140			
reag	A	A	C	A	A	A	A	A	T	C	A	A	-	-	G	A	C	A	A	A	A	G	C	C	T	G	C	C	-	C	C	C	T	G	C	3156			
heag	-	-	-	-	-	-	-	-	-	G	T	C	A	C	C	A	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2992		
beag	C	T	A	G	A	C	A	C	C	A	C	A	C	A	C	A	C	C	-	T	A	C	-	-	-	-	-	-	-	-	-	-	-	-	-	3179			
reag	C	C	T	G	A	C	A	C	T	T	C	T	A	C	C	A	A	A	C	A	C	A	C	A	T	G	A	C	A	T	G	A	C	A	C	3196			
heag	C	C	C	G	G	A	A	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3002		
beag	T	T	C	A	A	G	T	A	G	G	C	T	T	T	C	C	C	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3200			
reag	T	T	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3200			

Fig. 10 cont.

heag1	M T M A G G R R G L V A P Q N T F L E N	20
heag2	M T M A G G R R G L V A P Q N T F L E N	20
beag1	M T M A G G R K G L V A P Q N T F L E N	20
beag2	M T M A G G R K G L V A P Q N T F L E N	20
meag	M T M A G G R R G L V A P Q N T F L E N	20
reag	M T M A G G R R G L V A P Q N T F L E N	20
heag1	I V R R S N D T N F V L G N A Q I V D W	40
heag2	I V R R S N D T N F V L G N A Q I V D W	40
beag1	I V R R S N D T N F V L G N A Q I V D W	40
beag2	I V R R S N D T N F V L G N A Q I V D W	40
meag	I V R R S N D T N F V L G N A Q I V D W	40
reag	I V R R S N D T N F V L G N A Q I V D W	40
heag1	P I V Y S N D G F C K L S G Y H R A E V	60
heag2	P I V Y S N D G F C K L S G Y H R A E V	60
beag1	P I V Y S N D G F C K L S G Y H R A E V	60
beag2	P I V Y S N D G F C K L S G Y H R A E V	60
meag	P I V Y S N D G F C K L S G Y H R A E V	60
reag	P I V Y S N D G F C K L S G Y H R A E V	60
heag1	M Q K S S T C S F M Y G E L T D K D T I	80
heag2	M Q K S S T C S F M Y G E L T D K D T I	80
beag1	M Q K S S T C S F M Y G E L T D K D T I	80
beag2	M Q K S S T C S F M Y G E L T D K D T I	80
meag	M Q K S S A C S F M Y G E L T D K D T V	80
reag	M Q K S S A C S F M Y G E L T D K D T V	80
heag1	E K V R Q T F E N Y E M N S F E I L M Y	100
heag2	E K V R Q T F E N Y E M N S F E I L M Y	100
beag1	E K V R Q T F E N Y E M N S F E I L M Y	100
beag2	E K V R Q T F E N Y E M N S F E I L M Y	100
meag	E K V R Q T F E N Y E M N S F E I L M Y	100
reag	E K V R Q T F E N Y E M N S F E I L M Y	100

Fig. 11

heag1	K K N R T P V W F F V K I A P I R N E Q	120
heag2	K K N R T P V W F F V K I A P I R N E Q	120
beag1	K K N R T P V W F F V K I A P I R N E Q	120
beag2	K K N R T P V W F F V K I A P I R N E Q	120
meag	K K N R T P V W F F V K I A P I R N E Q	120
reag	K K N R T P V W F F V K I A P I R N E Q	120
heag1	D K V V L F L C T F S D I T A F K Q P I	140
heag2	D K V V L F L C T F S D I T A F K Q P I	140
beag1	D K V V L F L C T F S D I T A F K Q P I	140
beag2	D K V V L F L C T F S D I T A F K Q P I	140
meag	D K V V L F L C T F S D I T A F K Q P I	140
reag	D K V V L F L C T F S D I T A F K Q P I	140
heag1	E D D S C K G W G K F A R L T R A L T S	160
heag2	E D D S C K G W G K F A R L T R A L T S	160
beag1	E D D S C K G W G K F A R L T R A L T S	160
beag2	E D D S C K G W G K F A R L T R A L T S	160
meag	E D D S C K G W G K F A R L T R A L T S	160
reag	E D D S C K G W G K F A R L T R A L T S	160
heag1	S R G V L Q Q L A P S V Q K G E N V H K	180
heag2	S R G V L Q Q L A P S V Q K G E N V H K	180
beag1	S R G V L Q Q L A P S V Q K G E N V H K	180
beag2	S R G V L Q Q L A P S V Q K G E N V H K	180
meag	S R G V L Q Q L A P S V Q K G E N V H K	180
reag	S R G V L Q Q L A P S V Q K G E N V H K	180
heag1	H S R L A E V L Q L G S D I L P Q Y K Q	200
heag2	H S R L A E V L Q L G S D I L P Q Y K Q	200
beag1	H S R L A E V L Q L G S D I L P Q Y K Q	200
beag2	H S R L A E V L Q L G S D I L P Q Y K Q	200
meag	H S R L A E V L Q L G S D I L P Q Y K Q	200
reag	H S R L A E V L Q L G S D I L P Q Y K Q	200

Fig. 11 cont.

heag1 E A P K T P P H I I L H Y C V F K T T W 220
 heag2 E A P K T P P H I I L H Y C V F K T T W 220
 beag1 E A P K T P P H I I L H Y C V F K T T W 220
 beag2 E A P K T P P H I I L H Y C V F K T T W 220
 meag E A P K T P P H I I L H Y C V F K T T W 220
 reag E A P K T P P H I I L H Y C V F K T T W 220

heag1 D W I I L I L T F Y T A I L V P Y N V S 240
 heag2 D W I I L I L T F Y T A I L V P Y N V S 240
 beag1 D W I I L I L T F Y T A I L V P Y N V S 240
 beag2 D W I I L I L T F Y T A I L V P Y N V S 240
 meag D W I I L I L T F Y T A I L V P Y N V S 240
 reag D W I I L I L T F Y T A I L V P Y N V S 240

heag1 F K T R Q N N V A W L V V D S I V D V I 260
 heag2 F K T R Q N N V A W L V V D S I V D V I 260
 beag1 F K T R Q N N V A W L V V D S I V D V I 260
 beag2 F K T R Q N N V A W L V V D S I V D V I 260
 meag F K T R Q N N V A W L V V D S I V D V I 260
 reag F K T R Q N N V A W L V V D S I V D V I 260

heag1 F L V D I V L N F H T T F V G P A G E V 280
 heag2 F L V D I V L N F H T T F V G P A G E V 280
 beag1 F L V D I V L N F H T T F V G P A G E V 280
 beag2 F L V D I V L N F H T T F V G P A G E V 280
 meag F L V D I V L N F H T T F V G P A G E V 280
 reag F L V D I V L N F H T T F V G P A G E V 280

heag1 I S D P K L I R M N Y L K T W F V I D L 300
 heag2 I S D P K L I R M N Y L K T W F V I D L 300
 beag1 I S D P K L I R M N Y L K T W F V I D L 300
 beag2 I S D P K L I R M N Y L K T W F V I D L 300
 meag I S D P K L I R M N Y L K T W F V I D L 300
 reag I S D P K L I R M N Y L K T W F V I D L 300

Fig. 11 cont.

heag1 L S C L P Y D V I N A F E N V D E - - - 317
 heag2 L S C L P Y D V I N A F E N V D E V S A 320
 beag1 L S C L P Y D V I N A F E N V D E - - - 317
 beag2 L S C L P Y D V I N A F E N V D E V S A 320
 meag L S C L P Y D V I N A F E N V D E V S A 320
 reag L S C L P Y D V I N A F E N V D E - - - 317

heag1 - - - - - 317
 heag2 F M G D P G K I G F A D Q I P P P L E G 340
 beag1 - - - - - 317
 beag2 F M G D P G K I G F A D Q I P P P L E G 340
 meag F M G D P G K I G F A D Q I P P P L E G 340
 reag - - - - - 317

heag1 - - - - G I S S L F S S L K V V R L L R 333
 heag2 R E S Q G I S S L F S S L K V V R L L R 360
 beag1 - - - - G I S S L F S S L K V V R L L R 333
 beag2 R E S Q G I S S L F S S L K V V R L L R 360
 meag R E S Q G I S S L F S S L K V V R L L R 360
 reag - - - - G I S S L F S S L K V V R L L R 333

heag1 L G R V A R K L D H Y I E Y G A A V L V 353
 heag2 L G R V A R K L D H Y I E Y G A A V L V 380
 beag1 L G R V A R K L D H Y I E Y G A A V L V 353
 beag2 L G R V A R K L D H Y I E Y G A A V L V 380
 meag L G R V A R K L D H Y I E Y G A A V L V 380
 reag L G R V A R K L D H Y I E Y G A A V L V 353

heag1 L L V C V F G L A A H W M A C I W Y S I 373
 heag2 L L V C V F G L A A H W M A C I W Y S I 400
 beag1 L L V C V F G L A A H W M A C I W Y S I 373
 beag2 L L V C V F G L A A H W M A C I W Y S I 400
 meag L L V C V F G L A A H W M A C I W Y S I 400
 reag L L V C V F G L A A H W M A C I W Y S I 373

Fig. 11 cont.

heag1	V A I M M I G S L L Y A T I F G N V T T	473
heag2	V A I M M I G S L L Y A T I F G N V T T	500
beag1	V A I M M I G S L L Y A T I F G N V T T	473
beag2	V A I M M I G S L L Y A T I F G N V T T	500
meag	V A I M M I G S L L Y A T I F G N V T T	500
reag	V A I M M I G S L L Y A T I F G N V T T	473

Fig. 11 cont.

heag1 I F Q Q M Y A N T N R Y H E M L N S V R 493
 heag2 I F Q Q M Y A N T N R Y H E M L N S V R 520
 beag1 I F Q Q M Y A N T N R Y H E M L N S V R 493
 beag2 I F Q Q M Y A N T N R Y H E M L N S V R 520
 meag I F Q Q M Y A N T N R Y H E M L N S V R 520
 reag I F Q Q M Y A N T N R Y H E M L N S V R 493

heag1 D F L K L Y Q V P K G L S E R V M D Y I 513
 heag2 D F L K L Y Q V P K G L S E R V M D Y I 540
 beag1 D F L K L Y Q V P K G L S E R V M D Y I 513
 beag2 D F L K L Y Q V P K G L S E R V M D Y I 540
 meag D F L K L Y Q V P K G L S E R V M D Y I 540
 reag D F L K L Y Q V P K G L S E R V M D Y I 513

heag1 V S T W S M S R G I D T E K V L Q I C P 533
 heag2 V S T W S M S R G I D T E K V L Q I C P 560
 beag1 V S T W S M S R G I D T E K V L Q I C P 533
 beag2 V S T W S M S R G I D T E K V L Q I C P 560
 meag V S T W S M S R G I D T E K V L Q I C P 560
 reag V S T W S M S R G I D T E K V L Q I C P 533

heag1 K D M R A D I C V H L N R K V F K E H P 553
 heag2 K D M R A D I C V H L N R K V F K E H P 580
 beag1 K D M R A D I C V H L N R K V F K E H P 553
 beag2 K D M R A D I C V H L N R K V F K E H P 580
 meag K D M R A D I C V H L N R K V F K E H P 580
 reag K D M R A D I C V H L N R K V F K E H P 553

heag1 A F R L A S D G C L R A L A M E F Q T V 573
 heag2 A F R L A S D G C L R A L A M E F Q T V 600
 beag1 A F R L A S D G C L R A L A M E F Q T V 573
 beag2 A F R L A S D G C L R A L A M E F Q T V 600
 meag A F R L A S D G C L R A L A M E F Q T V 600
 reag A F R L A S D G C L R A L A M E F Q T V 573

Fig. 11 cont.

000001 2246550

heag1	H C A P G D L I Y H A G E S V D S L C F	593
heag2	H C A P G D L I Y H A G E S V D S L C F	620
beag1	H C A P G D L I Y H A G E S V D S L C F	593
beag2	H C A P G D L I Y H A G E S V D S L C F	620
meag	H C A P G D L I Y H A G E S V D S L C F	620
reag	H C A P G D L I Y H A G E S V D S L C F	593
heag1	V V S G S L E V I Q D D E V V A I L G K	613
heag2	V V S G S L E V I Q D D E V V A I L G K	640
beag1	V V S G S L E V I Q D D E V V A I L G K	613
beag2	V V S G S L E V I Q D D E V V A I L G K	640
meag	V V S G S L E V I Q D D E V V A I L G K	640
reag	V V S G S L E V I Q D D E V V A I L G K	613
heag1	G D V F G D V F W K E A T L A Q S C A N	633
heag2	G D V F G D V F W K E A T L A Q S C A N	660
beag1	G D V F G D V F W K E A T L A Q S C A N	633
beag2	G D V F G D V F W K E A T L A Q S C A N	660
meag	G D V F G D V F W K E A T L A Q S C A N	660
reag	G D V F G D V F W K E A T L A Q S C A N	633
heag1	V R A L T Y C D L H V I K R D A L Q K V	653
heag2	V R A L T Y C D L H V I K R D A L Q K V	680
beag1	V R A L T Y C D L H V I K R D A L Q K V	653
beag2	V R A L T Y C D L H V I K R D A L Q K V	680
meag	V R A L T Y C D L H V I K R D A L Q K V	680
reag	V R A L T Y C D L H V I K R D A L Q K V	653
heag1	L E F Y T A F S H S F S R N L I L T Y N	673
heag2	L E F Y T A F S H S F S R N L I L T Y N	700
beag1	L E F Y T A F S H S F S R N L I L T Y N	673
beag2	L E F Y T A F S H S F S R N L I L T Y N	700
meag	L E F Y T A F S H S F S R N L I L T Y N	700
reag	L E F Y T A F S H S F S R N L I L T Y N	673

Fig. 11 cont.

Fig. 11 cont.

heag1	Q	A	A	S	T	S	G	V	P	D	H	A	K	L	Q	A	P	G	S	E	793
heag2	Q	A	A	S	T	S	G	V	P	D	H	A	K	L	Q	A	P	G	S	E	820
beag1	P	A	A	A	A	P	A	G	L	D	H	A	R	L	Q	A	P	G	A	E	791
beag2	P	A	A	A	A	P	A	G	L	D	H	A	R	L	Q	A	P	G	A	E	818
meag	Q	A	A	T	T	S	T	M	S	D	H	A	K	L	H	A	P	G	S	E	820
reag	Q	A	A	S	T	S	T	V	S	D	H	A	K	L	H	A	P	G	S	E	793
heag1	C	L	G	P	K	G	G	G	G	D	C	A	K	R	K	S	W	A	R	F	813
heag2	C	L	G	P	K	G	G	G	G	D	C	A	K	R	K	S	W	A	R	F	840
beag1	G	L	G	P	K	A	G	G	A	D	C	A	K	R	K	G	W	A	R	F	811
beag2	G	L	G	P	K	A	G	G	A	D	C	A	K	R	K	G	W	A	R	F	838
meag	C	L	G	P	K	A	V	S	C	D	P	A	K	R	K	G	W	A	R	F	840
reag	C	L	G	P	K	A	G	G	G	D	P	A	K	R	K	G	W	A	R	F	813
heag1	K	D	A	C	G	K	S	E	D	W	N	K	V	S	K	A	E	S	M	E	833
heag2	K	D	A	C	G	K	S	E	D	W	N	K	V	S	K	A	E	S	M	E	860
beag1	K	D	A	C	G	Q	A	E	D	W	S	K	V	S	K	A	E	S	M	E	831
beag2	K	D	A	C	G	Q	A	E	D	W	S	K	V	S	K	A	E	S	M	E	858
meag	K	D	A	C	G	K	G	E	D	W	N	K	V	S	K	A	E	S	M	E	860
reag	K	D	A	C	G	K	G	E	D	W	N	K	V	S	K	A	E	S	M	E	833
heag1	T	L	P	E	R	T	K	A	S	G	E	A	T	L	K	K	T	D	S	C	853
heag2	T	L	P	E	R	T	K	A	S	G	E	A	T	L	K	K	T	D	S	C	880
beag1	T	L	P	E	R	T	K	A	A	G	E	A	T	L	K	K	T	D	S	C	851
beag2	T	L	P	E	R	T	K	A	A	G	E	A	T	L	K	K	T	D	S	C	878
meag	T	L	P	E	R	T	K	A	P	G	E	A	T	L	K	K	T	D	S	C	880
reag	T	L	P	E	R	T	K	A	S	G	E	A	T	L	K	K	T	D	S	C	853
heag1	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	873
heag2	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	900
beag1	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	871
beag2	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	898
meag	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	T	R	S	P	900
reag	D	S	G	I	T	K	S	D	L	R	L	D	N	V	G	E	A	R	S	P	873

Fig. 11 cont.

Fig. 11 cont.

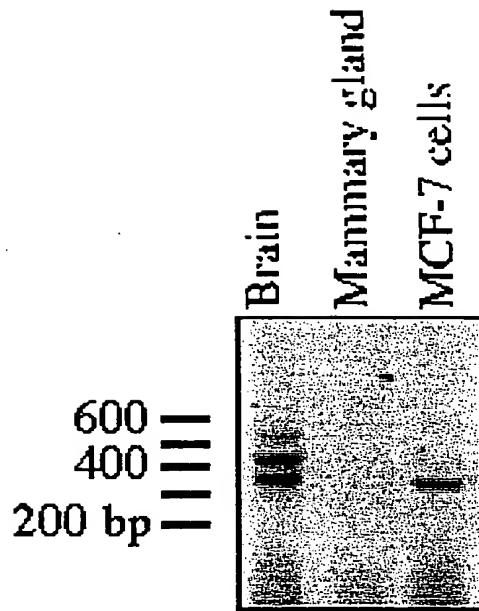


Fig. 12

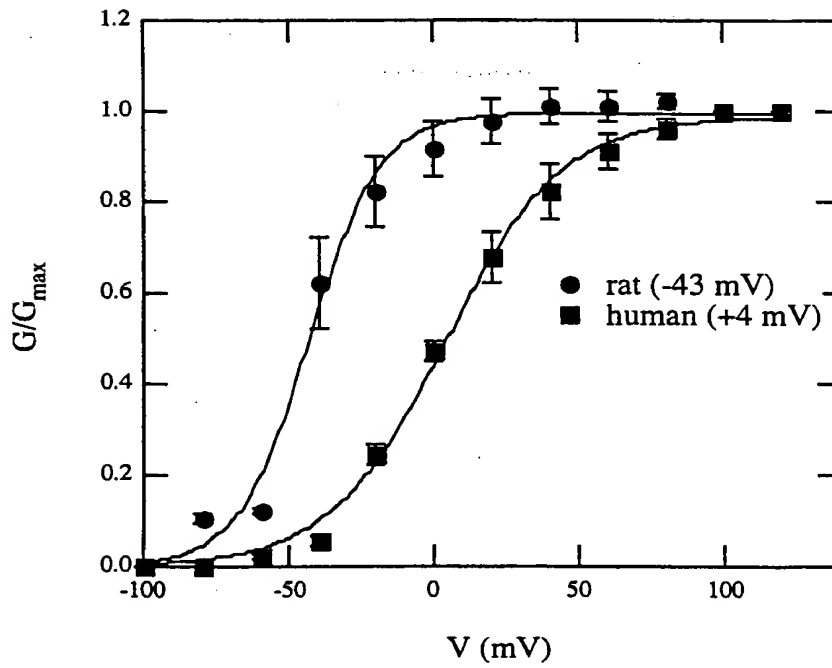


Fig. 13

DNA	Colonies ≥ 0.1 mm
rEAG-pTracer	9.9 ± 2.4
rEAG-pcDNA3	8.5 ± 3.2
rKv1.4-pTracer	0
rKv1.4-pcDNA3	1.4 ± 0.7
GFP-pcDNA3	0.8 ± 0.5
Transfection buffer	0.6 ± 0.2
No treatment	0

Fig. 14

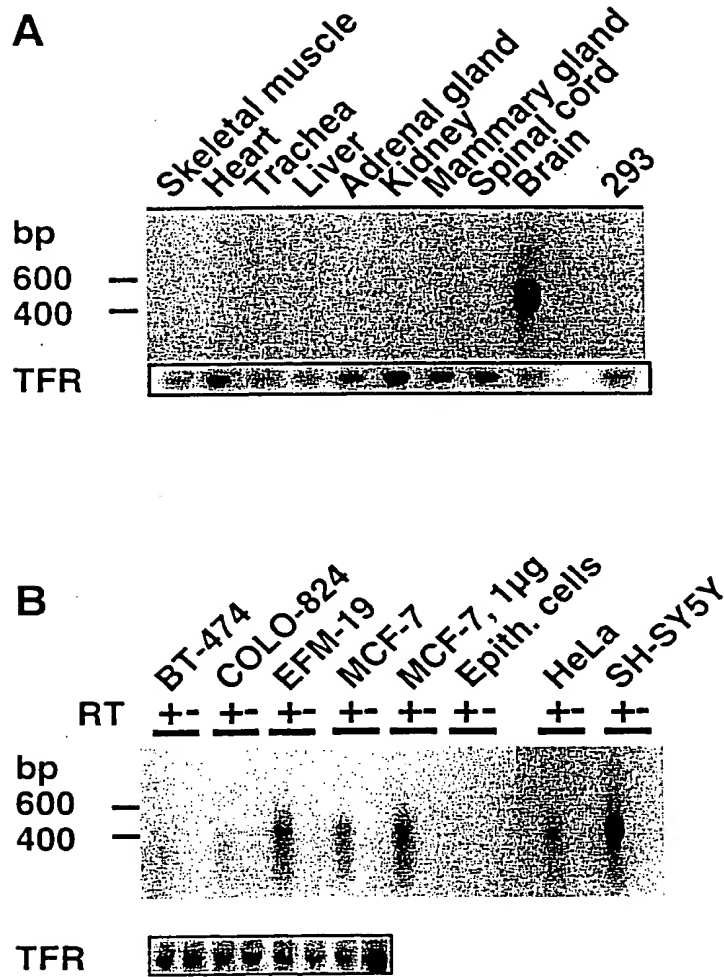


Fig. 15

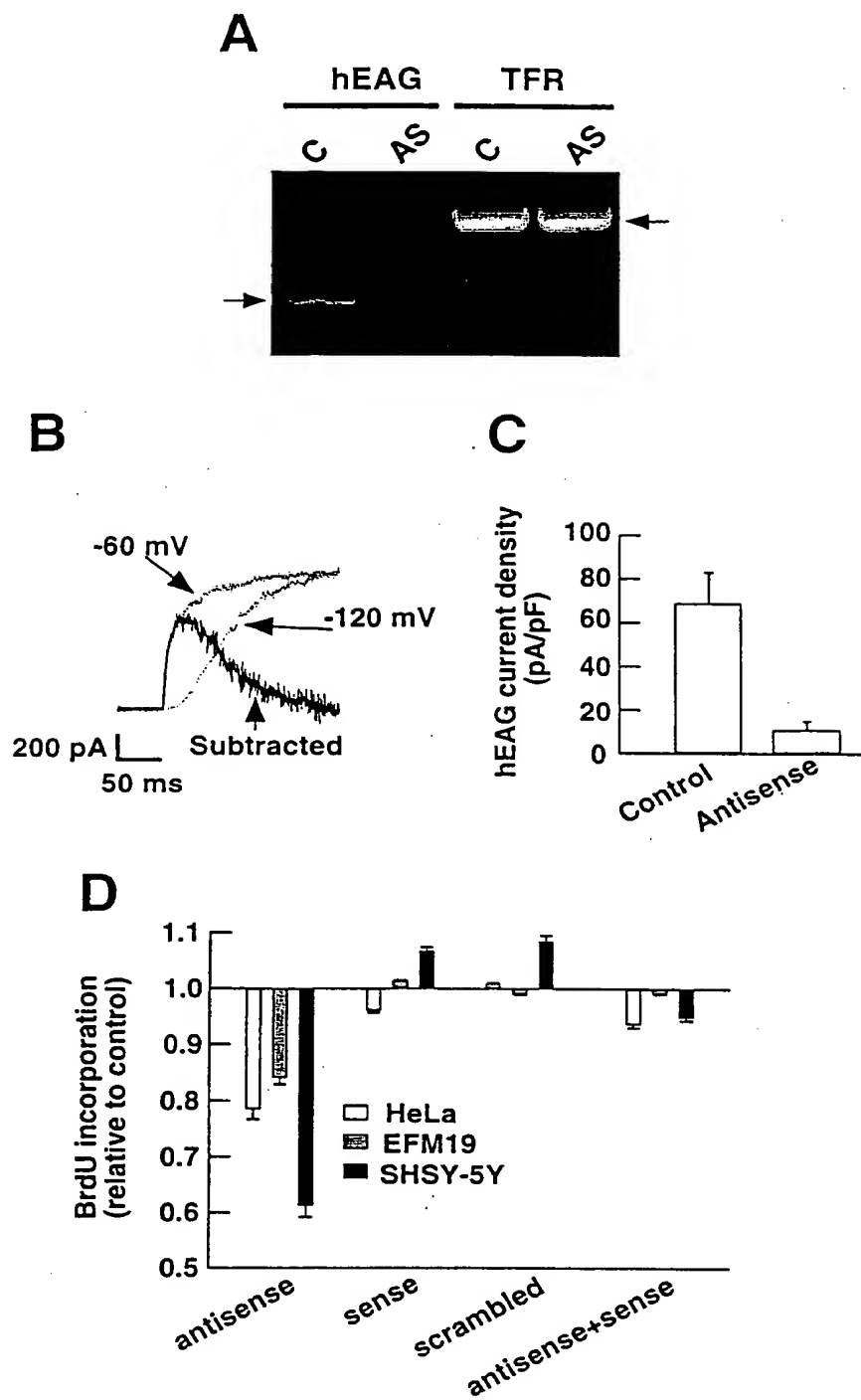


Fig. 16

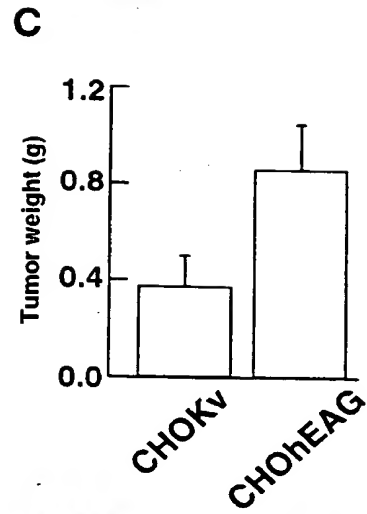
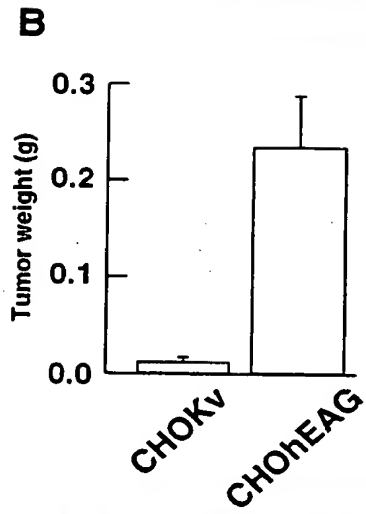


Fig. 17

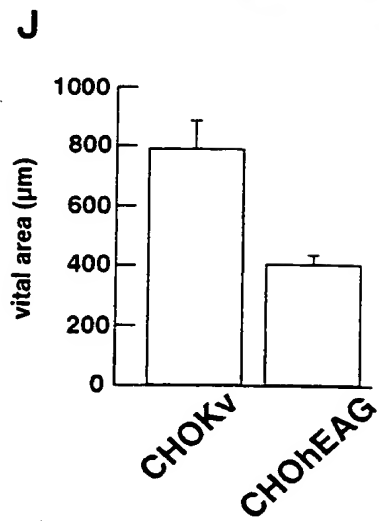


Fig. 17 cont.

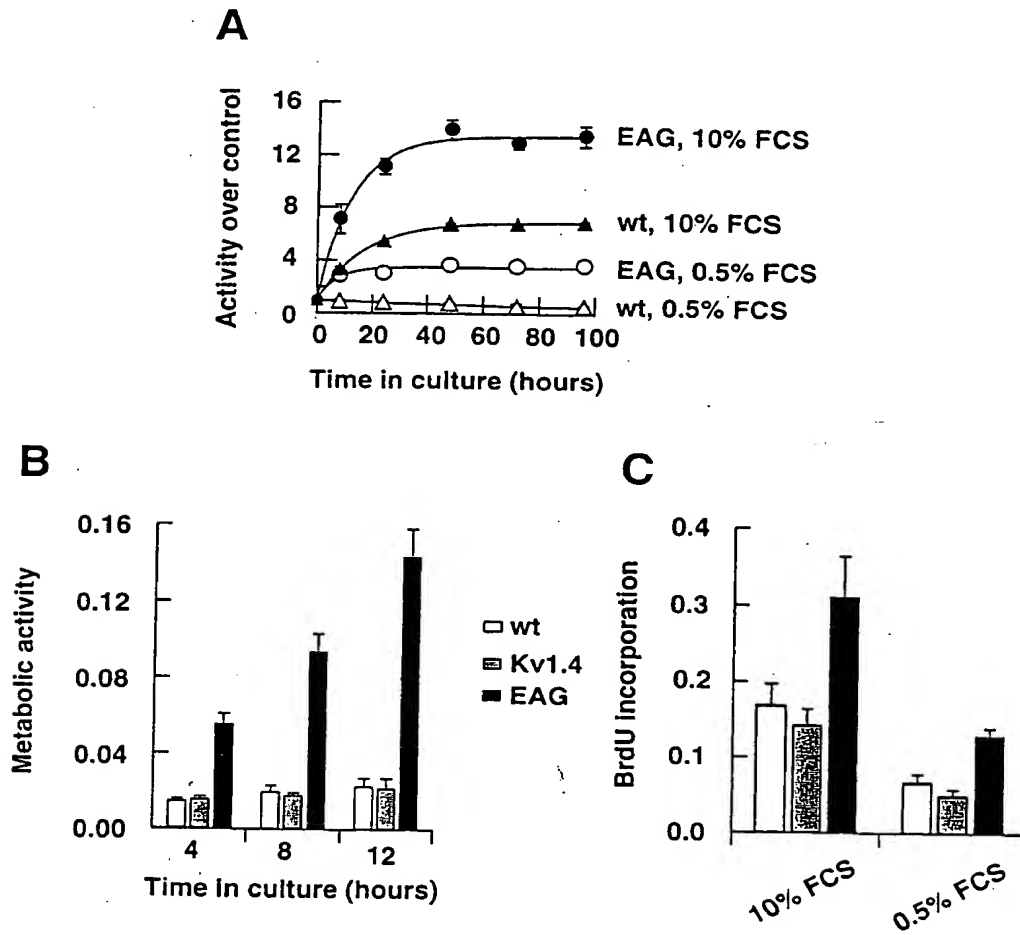


Fig. 18